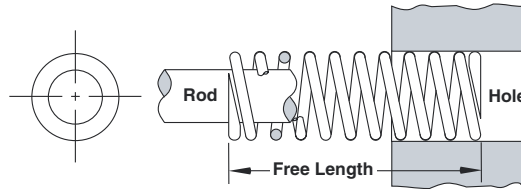
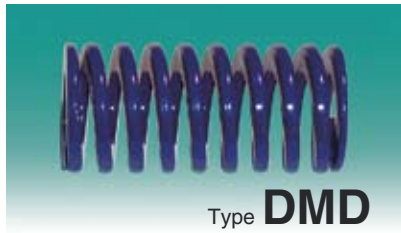


Medium Duty

Inch-ISO Colors



HOW TO ORDER

Specify:	Qty.	Catalog #
Example:	16	DMD37-1200
	27	DMD75-400

Note: Efficient Operating Range is 20% to 37% of the free length. (Maximum deflection = 37%; long life = 25%; and optimum life = 20%.) "Travel to Solid" is for reference only. Deflection beyond the Efficient Operating Range could create a safety hazard, and result in premature spring failure.

Hole Dia.	Rod Dia.	Free Length	Catalog Number	LOAD DEFLECTION TABLE							Load @ .1" Deflection (lbs)
				37% Deflection		25% Deflection		20% Deflection		Travel to Solid	
				Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Deflection (in)	
3/8	3/16	1	DMD37-100	44	.370	30	.250	24	.200	.515	12.0
		1.25	DMD37-125	42	.463	28	.313	23	.250	.576	9.0
		1.5	DMD37-150	44	.555	30	.375	24	.300	.771	8.0
		1.75	DMD37-175	47	.648	32	.438	25	.350	.922	7.2
		2	DMD37-200	51	.740	35	.500	28	.400	1.031	6.9
		2.5	DMD37-250	40	.925	27	.625	22	.500	1.226	4.3
		3	DMD37-300	34	1.110	23	.750	19	.600	1.520	3.1
1/2	9/32	12	DMD37-1200	42	4.440	29	3.000	23	2.400	6.593	1.0
		1	DMD50-100	63	.370	43	.250	34	.200	.443	17.0
		1.25	DMD50-125	64	.463	43	.313	35	.250	.670	13.8
		1.5	DMD50-150	58	.555	39	.375	32	.300	.720	10.5
		1.75	DMD50-175	65	.648	44	.438	35	.350	.931	10.0
		2	DMD50-200	61	.740	41	.500	33	.400	1.023	8.2
		2.5	DMD50-250	59	.925	40	.625	32	.500	1.316	6.4
5/8	11/32	3	DMD50-300	64	1.110	44	.750	35	.600	1.639	5.8
		3.5	DMD50-350	65	1.295	44	.875	35	.700	1.915	5.0
		12	DMD50-1200	53	4.440	36	3.000	29	2.400	6.216	1.2
		1	DMD62-100	107	.370	73	.250	58	.200	.431	29.0
		1.25	DMD62-125	97	.463	66	.313	53	.250	.536	21.0
		1.5	DMD62-150	100	.555	68	.375	54	.300	.609	18.0
		1.75	DMD62-175	102	.648	69	.438	55	.350	.763	15.8
3/4	3/8	2	DMD62-200	108	.740	73	.500	58	.400	.892	14.6
		2.5	DMD62-250	111	.925	75	.625	60	.500	1.250	12.0
		3	DMD62-300	118	1.110	80	.750	64	.600	1.550	10.6
		3.5	DMD62-350	104	1.295	70	.875	56	.700	1.725	8.0
		4	DMD62-400	102	1.480	69	1.000	55	.800	2.053	6.9
		12	DMD62-1200	111	4.440	75	3.000	60	2.400	6.439	2.5
		1	DMD75-100	216	.370	146	.250	117	.200	.418	58.4
3/4	3/8	1.25	DMD75-125	202	.463	136	.313	109	.250	.554	43.6
		1.5	DMD75-150	191	.555	129	.375	104	.300	.655	34.5
		1.75	DMD75-175	194	.648	131	.438	105	.350	.766	30.0
		2	DMD75-200	189	.740	128	.500	102	.400	.936	25.6
		2.5	DMD75-250	199	.925	134	.625	108	.500	1.228	21.5
		3	DMD75-300	185	1.110	125	.750	100	.600	1.480	16.7
		3.5	DMD75-350	185	1.295	125	.875	100	.700	1.757	14.3
		4	DMD75-400	189	1.480	128	1.000	102	.800	1.978	12.8
		4.5	DMD75-450	190	1.665	128	1.125	103	.900	2.127	11.4
		5	DMD75-500	185	1.850	125	1.250	100	1.000	2.465	10.0
		5.5	DMD75-550	187	2.035	127	1.375	101	1.100	2.764	9.2
		6	DMD75-600	200	2.220	135	1.500	108	1.200	2.749	9.0
3/4	3/8	12	DMD75-1200	173	4.440	117	3.000	94	2.400	5.827	3.9

FDS[®]
FIRM DELIVERY SCHEDULE
1 Day

Medium Duty

Inch-ISO Colors

Hole Dia.	Rod Dia.	Free Length	Catalog Number	LOAD DEFLECTION TABLE							Load @ .1" Deflection (lbs)
				37% Deflection		25% Deflection		20% Deflection		Travel to Solid	
				Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Deflection (in)	
1	1/2	1	DMD100-100	335	.370	226	.250	181	.200	.387	90.5
		1.25	DMD100-125	288	.463	195	.313	156	.250	.525	62.2
		1.5	DMD100-150	273	.555	185	.375	148	.300	.627	49.2
		1.75	DMD100-175	277	.648	187	.438	150	.350	.763	42.8
		2	DMD100-200	284	.740	192	.500	154	.400	.900	38.4
		2.5	DMD100-250	310	.925	209	.625	168	.500	1.162	33.5
		3	DMD100-300	275	1.110	186	.750	149	.600	1.415	24.8
		3.5	DMD100-350	282	1.295	191	.875	153	.700	1.685	21.8
		4	DMD100-400	271	1.480	183	1.000	146	.800	1.928	18.3
		4.5	DMD100-450	268	1.665	181	1.125	145	.900	2.228	16.1
		5	DMD100-500	268	1.850	181	1.250	145	1.000	2.538	14.5
		5.5	DMD100-550	263	2.035	177	1.375	142	1.100	2.652	12.9
1 1/4	5/8	6	DMD100-600	262	2.220	177	1.500	142	1.200	2.952	11.8
		7	DMD100-700	259	2.590	175	1.750	140	1.400	3.466	10.0
		8	DMD100-800	260	2.960	176	2.000	141	1.600	3.922	8.8
		12	DMD100-1200	289	4.440	195	3.000	156	2.400	6.100	6.5
		1.5	DMD125-150	586	.555	396	.375	317	.300	.584	105.5
		1.75	DMD125-175	590	.648	399	.438	319	.350	.720	91.0
		2	DMD125-200	592	.740	400	.500	320	.400	.820	80.0
		2.5	DMD125-250	588	.925	398	.625	318	.500	1.081	63.6
		3	DMD125-300	585	1.110	395	.750	316	.600	1.280	52.7
		3.5	DMD125-350	603	1.295	408	.875	326	.700	1.530	46.6
		4	DMD125-400	579	1.480	391	1.000	313	.800	1.796	39.1
		4.5	DMD125-450	573	1.665	387	1.125	310	.900	2.040	34.4
1 1/2	3/4	5	DMD125-500	566	1.850	383	1.250	306	1.000	2.265	30.6
		5.5	DMD125-550	568	2.035	384	1.375	307	1.100	2.549	27.9
		6	DMD125-600	582	2.220	393	1.500	314	1.200	2.725	26.2
		7	DMD125-700	559	2.590	378	1.750	302	1.400	3.220	21.6
		8	DMD125-800	556	2.960	376	2.000	301	1.600	3.680	18.8
		10	DMD125-1000	537	3.700	363	2.500	290	2.000	4.612	14.5
		12	DMD125-1200	546	4.400	372	3.000	298	2.400	5.433	12.4
		2	DMD150-200	892	.740	603	.500	482	.400	.774	120.6
		2.5	DMD150-250	740	.925	500	.625	400	.500	1.018	80.0
		3	DMD150-300	730	1.110	494	.750	395	.600	1.281	65.8
		3.5	DMD150-350	699	1.295	473	.875	378	.700	1.519	54.0
		4	DMD150-400	789	1.480	533	1.000	426	.800	1.767	53.3
2	1	4.5	DMD150-450	721	1.665	487	1.125	390	.900	2.057	43.3
		5	DMD150-500	688	1.850	465	1.250	372	1.000	2.300	37.2
		5.5	DMD150-550	692	2.035	468	1.375	374	1.100	2.598	34.0
		6	DMD150-600	682	2.220	461	1.500	368	1.200	2.843	30.7
		7	DMD150-700	673	2.590	455	1.750	364	1.400	3.329	26.0
		8	DMD150-800	693	2.960	468	2.000	374	1.600	4.018	23.4
		10	DMD150-1000	759	3.700	513	2.500	410	2.000	4.620	20.5
		12	DMD150-1200	639	4.440	432	3.000	346	2.400	5.735	14.4
		2.5	DMD200-250	1036	.925	700	.625	560	.500	1.017	112.0
		3	DMD200-300	971	1.110	656	.750	525	.600	1.284	87.5
		3.5	DMD200-350	971	1.295	656	.875	525	.700	1.550	75.0
		4	DMD200-400	940	1.480	635	1.000	508	.800	1.786	63.5
2 1/2	1 1/2	4.5	DMD200-450	957	1.665	647	1.125	518	.900	1.979	57.5
		5	DMD200-500	981	1.850	663	1.250	530	1.000	2.258	53.0
		5.5	DMD200-550	1009	2.035	682	1.375	546	1.100	2.503	49.6
		6	DMD200-600	1041	2.220	704	1.500	563	1.200	2.817	46.9
		7	DMD200-700	1002	2.590	677	1.750	542	1.400	3.291	38.7
		8	DMD200-800	977	2.960	660	2.000	528	1.600	3.892	33.0
		9	DMD200-900	966	3.330	652	2.250	522	1.800	3.930	29.0
		10	DMD200-1000	984	3.700	665	2.500	532	2.000	4.740	26.6
		12	DMD200-1200	932	4.440	630	3.000	504	2.400	5.870	21.0
		3	DMD250-300	1931	1.110	1305	.750	1044	.600	1.290	174.0
		3.5	DMD250-350	1852	1.295	1251	.875	1001	.700	1.520	143.0
		4	DMD250-400	1790	1.480	1210	1.000	968	.800	1.740	121.0
2 1/2	1 1/2	4.5	DMD250-450	1765	1.665	1192	1.125	954	.900	1.980	106.0
		5	DMD250-500	1733	1.850	1171	1.250	937	1.000	2.220	93.7
		6	DMD250-600	1683	2.220	1137	1.500	910	1.200	2.670	75.8
		7	DMD250-700	1650	2.590	1115	1.750	892	1.400	3.120	63.7
		8	DMD250-800	1625	2.960	1098	2.000	878	1.600	3.570	54.9
		9	DMD250-900	1622	3.330	1096	2.250	877	1.800	4.060	48.7
		10	DMD250-1000	1620	3.700	1095	2.500	876	2.000	4.560	43.8
		12	DMD250-1200	1607	4.440	1086	3.000	869	2.400	5.450	36.2

MaxLife Die Springs

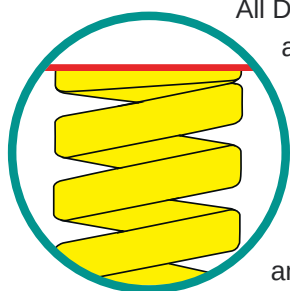
Product Applications

Dayton MaxLife® Die Springs are designed to the highest quality standards, and manufactured to outperform and outlast other major brands. All Dayton die springs are available in a wide range of lengths, diameters, and load classifications in both inch and metric sizes. In addition, all springs are color-coded for easy identification of load range.

Corrosion-resistant Dayton die springs are made from pre-tempered chrome silicon wire to improve dimensional accuracy, minimize high-stress cracking, optimize the working life of press and mold dies, and help reduce downtime. Many manufacturers specify Dayton die springs to ensure optimum operation in heavy industry applications, including: automotive; aircraft; appliance; electrical; and electronic.

Quality & Performance

From the incoming raw material (tested for tensile strength, dimensional accuracy, and surface quality) to the finished product, every Dayton die spring undergoes continuous quality control to ensure optimum product performance. In comparison testing, Dayton die springs consistently outperform and outlast other major brands.



All Dayton die springs are stress relieved after coiling, then compressed to solid to enhance fatigue life. Further, they are ground square at both ends (see insert), then shot-peened. (Shot-peening supplements compressive strength to reduce stress and extend spring life.) Finally, all

finished springs are electro-statically coated with a durable, anti-corrosive vinyl, and color-coded for easy identification of load ranges.



Ordering Information

Dayton die springs are ordered according to: the amount of pressure applied to the spring (see "Load Deflection Table"); the hole diameter (which determines the rod diameter); and, the free length of the spring (see drawing on usage category page). On each order, please specify quantity and "Catalog Number."

In the example below, the first "Catalog Number" is DMD37-100. "DMD" refers to Medium Duty Inch. "37" refers to a $\frac{3}{8}$ hole diameter and $\frac{3}{16}$ rod diameter. The "100" designation further defines the product with a free length of 1. The "Load Deflection Table" on each catalog page provides percentage of deflection, travel to solid, and load @ 1" or 1mm deflection to help determine the exact spring to select. The second product code shown is for an extra heavy duty metric spring.

The "Efficient Operating Range" of any spring should not be exceeded. For safe operation, when changing from another manufacturer to a Dayton die spring, verify that the travel of both springs is the same.

HOW TO ORDER

Specify:	Qty.	Catalog Number
Example:	16	DMD37-1200

Worldwide Distribution, On-time Delivery

Dayton maintains a large inventory of Dayton MaxLife® Die Springs in all standard categories throughout our system. There are no minimum size orders, and on-time delivery is a top priority. A Firm Delivery Schedule (FDS) is provided in each catalog section.

Industry Standards

All Dayton MaxLife® Die Springs are designed to meet or exceed technical specifications and other criteria as established by industry guidelines. Designated springs are manufactured to meet or exceed The International Organization for Standardization (ISO) and/or Japanese Industrial Standards (JIS).